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Atty. Docket No.: 1657/2052

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Benco et al.  
Serial No.: 10/776,063  
Filed: February 11, 2004  
Entitled: A Device and Method for the  
Determination of Lithium Ion  
Concentration in a Biological Fluid

Examiner: Not Yet Assigned

Group Art Unit: 1743

Conf. No.: 2112

**CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8a**

I hereby certify that this correspondence (and any paper or fee referred to as being enclosed) is being deposited with the United States Post Office as First Class Mail on the date indicated below in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Michael P. Doyle

Name of Person Mailing Paper

Signature of Person Mailing Paper

**Mail Stop Amendment**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

**TRANSMITTAL LETTER**

Enclosed for filing in the above-identified patent application, please find the following documents:

1. Information Disclosure Statement;
2. Form PTO-1449 listing 11 references;
3. Copies of 8 non-U.S. Patent References; and
4. Return Post Card.

The Commissioner for Patents is hereby authorized to charge any fees to Deposit Account No. 16-0085, Reference 1657/2052. A duplicate of this transmittal letter is enclosed for this purpose.

Date: July 7, 2004

Respectfully submitted,

Name: Michael P. Doyle  
Registration No.: 49,052  
Customer No.: 29932  
Palmer & Dodge LLP  
111 Huntington Avenue  
Boston, MA 02199-7613  
Tel: 617-239-0100



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Michael P. Doyle

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*Michael P. Doyle*  
Signature of Person Mailing Paper

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§ 1.56, 1.97 AND 1.98**

Dear Sir:

In accordance with the duty of disclosure under 37 CFR § 1.56, Applicant submits this Information Disclosure Statement pursuant to 37 CFR §§ 1.97 and 1.98 in the above-identified application for consideration by the Patent Office.

A listing of the cited documents, as well as, for the Examiner's convenience, copies of all foreign patent documents and non-patent literature are enclosed. This application was filed after June 30, 2003, and copies of U.S. patents and U.S. patent applications are not required and are not enclosed.

Pursuant to CFR § 1.97(b)(3), because this Statement is being submitted before the first Office Action on the merits, no fee is required.

Applicant does not intend to represent that any of the documents submitted herein are material prior art to this invention or that the list represents an exhaustive search of documents related to this invention.

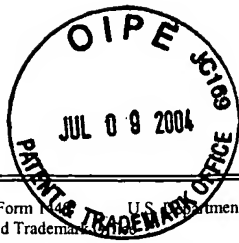
Applicant respectfully requests that the documents submitted herein be considered and made of record in this application.

Date: July 7, 2004

Respectfully submitted,

*Michael P. Doyle*

Name: Michael P. Doyle  
Registration No.: 49,052  
Customer No.: 29932  
Palmer & Dodge LLP  
111 Huntington Avenue  
Boston, MA 02199-7613  
Tel: 617-239-0100



USPTO Form 101 Patent and Trademark Office U.S. Department of Commerce <b>INFORMATION DISCLOSURE STATEMENT</b>				Attorney Docket No. 1657/2052		Serial No. 10/776,063	
				Applicant(s): Benco et al.			
				Filing Date: February 11, 2004		Group: 1743	
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
		5,599,913	February 4, 1997	Harris et al.	534	856	August 6, 1993
		2003/0159948	August 28, 2003	Benco et al.	205	789	January 7, 2002
		2003/0119195	June 26, 2003	Benco et al.	436	79	December 21, 2001
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initial		Document No.	Publication Date	Country	Class	Subclass	Translation
							YES NO
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)</b>							
	A	Arduini et al., "Calix[4]arenes Blocked in a Rigid Cone Conformation by Selective Functionalization at the Lower Rim", J. Org. Chem., 1995, v 60, p 1454-1457.					
	B	Benco et al., "A Fluoroionophore for Detection of Potassium ions: 9-anthryl-substituted Azacrown Ether Covalently Linked to a 1,3-alternate Calix[4]arene", J. of Photochemistry and Photobiology A: Chemistry, 2002, v 152 p 33-40.					
	C	Krause et al., "Emulsion-Based Fluorosensors for Potassium Featuring Improved Stability and Signal Change", Anal. Chem., 1999, v 71, p 5304-5308.					
	D	McCarrick et al., "Chromogenic Ligands for Lithium Based on Calix[4]arene Tetraesters Bearing Nitrophenol Residues", J. Chem. Soc. Perkin Trans. 2, 1993, p 1963-1968.					
	E	Prasanna de Silva et al., "Signaling Recognition Events with Fluorescent Sensors and Switches", Chem. Rev., 1997, v 97, p 1515-1566.					
	F	Rehm et al., "Kinetics of Fluorescence Quenching by Electron and H-Atom Transfer", Isreal Journal of Chemistry, 1979, v 8, p 259-271.					
	G	Valeur, Bernard, "Fluorescent Molecular Sensors of Ions and Molecules", Molecular Fluorescence: Principles and Applications, 2001, p 273-314.					
	H	Weller, Albert, "Photoinduced Electron Transfer in Solution: Exciplex and Radical Ion Pair Formation Free Enthalpies and their Solvent Dependence", 1982, p 93-98					
EXAMINER					DATE CONSIDERED		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							
**Copies of references not provided at the time of this submission.							